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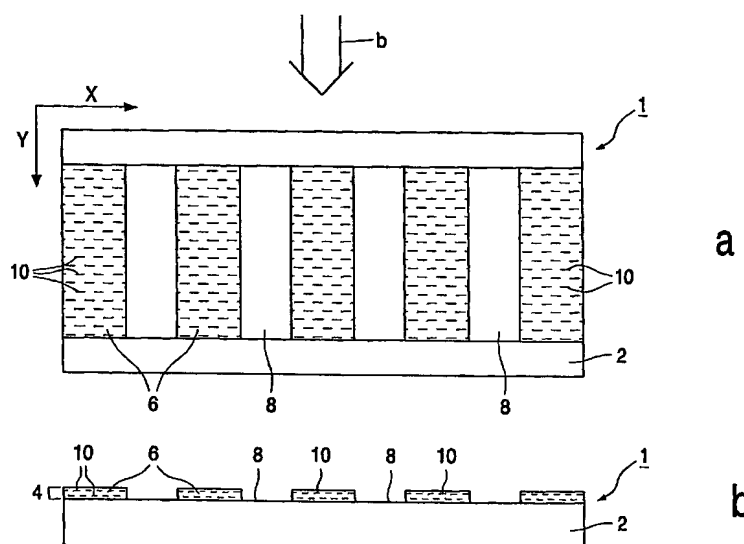
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(54) Title: OPTICAL DIFFRACTION ELEMENT



(57) Abstract: An optical diffraction element (1) comprises a diffraction layer (4) which is divided into diffraction strips (6) alternating with intermediate strips (8). The diffraction strips comprise nano-elements (10) which are aligned in one direction and absorb radiation (b) which is linearly polarized in this direction. The diffraction element may be a linear or two-dimensional grating (1) or a Fresnel lens (160). The polarization-sensitive grating can be used in optical systems in which only radiation with a specific polarization direction should be diffracted, or in an optical record carrier to allow reading of an information structure with high spatial frequencies.



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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